









actg. asst. us le. I. in charge John, Yuken.

- Monday april 28 at two p. m. weigh ancher & beat out of Sun Francisa Bay passing the heads at 4 P. M. and sail for Unalaska. A. J. Wind Wly S. Ther. 62. Cloudy-- Fresvay april 29 -Umo fresht W. W. Sky half clear. Bar. 30.440, Ther, 60, Commence current observations Wednesday apr. 30. Wind light nW, Ther, 62, Walter 58, Bar, 30,460, Healf clear Commence hydrometric abservations Water at 4 P. M. reads -, 24 Thursday May ! Commence sea time. 4 P. Il. Bar. 30,44, au. 66°, Water 62°, 8p. gr. 24 8 P. M. Bar. 30, 42°, air 62°, water 60 12 P.M. Bar, 30, 42, air 60°, Water 60 4 A.M. Bar 30.35, air 59, Water 60 8 ct. M Bar, 30, 39, air 59, water 60°

	Monda	, may	5-1845	
Fine.	Monda Bar, 30,59	Tair!	Water.	8p.gr.
48.11	130,59	64.	5t -	0,24 h
8	30,60	60	59	.,
12		56		
HWILL	30,59			
	30,59		*	
12	30.59	67	58	
Wind	ight easte	uly 1	clondy	
	Juesday	may	6 possession	
Time:	Bar.	air.	Water	Sp.gr
4P.M	30,49	62	58	-0,25 S.E.
Allen	30.49	59	55	f,
12		57	56	•
4 Hall		56		٠,
	30,32			•
12	30.22			í e
Wind	grest s	E. Cl	londy	
	Wedneso	lay n	lay 4	
Fine.	Bar.			Sp.gr.
4 P.M.	30.13	62		0,25-5.8
8	30.10		53	
12	29.99		54	SSW
ud.M	29.90	52	51	1,
8	30,01	52	53	Sec
12				
win	Seto!	& Wome	derate.	Cloudy

me Thursday May 8th 1873 Time Bar Air Water Sp. Gr. 4 P.M. 30.00 56 -0.25 SW. 50 8 " 29.98 49 SN 51 51 49 Variable 12 Mid. 29.95 4 All 2996 50 50 88W. 8 ., 29.76 51 49 48 ", 12 1 29.69 52 Wind very strong cloudy Inday May 9th 1873 Time Bar! I Air Water sp. Gr 4 PM 29.52 50 47 -0,255.5 8 29.54 45 46 8W 12 29.60 42 44 W8W 4 1 1 29.66 44 46 8 29.70 44 45 12 29.65 47 46 Blows a sale cloudy with rain Saturday May 19 th 1873 ~~ Zim Ban I Dir Water & G. 4 PM. 29.69 48 46 - 0.25NSN 8 29.77 44 47 WSW 12 29.76 4 AM 29.65 43 45 8 29.66 43 44 12 29.77 48 44 Blows very fresh, cloudy train

Sunday May 11 18/3 Jim Bar Air. Water Sp. Gr. 40.11. 29.80 43 44 - 0,255 Wsh 43 WSW 8 29.92 43 12 30.00 42 44 SSW 4 A.M. 30.02 42 43 SW 8 29.80 42 43 ... 12 29.65 45 42 8 Blowing a gale, cloudy train ~ Monday May 12 1873 ~~ Sime Bar, Sir Water 4 0.11. 29.65 45 42 -0.2555 8 29.58 43 42 SW 12 29.51 41 41 " 4 A.M. 29.40 40 41 .. 8 29.40 39 40 12 29.40 42 40 ... Blowsvery strong cloudy tenow Tuesday May 13th 1873 Zime Bar. Aler Water Sp. Gr. 4 P.M. 29.42 41 40-0.27wys 8 29.48 40 39 Whys 12 29.50 40 40 " 4 A.M. 29.55 38 39 " 8 29,61 39 39 WSW 12 29,64 44 39 Wind more moderate with

mun

Wednesday May, 14.73\_ Time Bav. air. Water, sp.gr. Wrids 4P.U. 29.60. 46° 40°, -0.27, W.S.W. 8 " · 29.62. 40. 39. 4 A.M 29.50, 39, 39, 58 8 .. .. 29.33. 39. 40, 12 M. 29.22, 39, 40, 4.0.11.29.08.41. 41. -0.27. 8W 12. Pull. 29.01. 40. 40. Winds light with rain, Many birds seen (This day contains 36 hours to recommence civil tune and conform with the original note books for the season) Thursday May 15 June Bar. au. Water Sp. gr. Wruds 4 A. M 29.17.38°, 39°, NW 8 .. .. 29.35, 42, 40, W 12... 29.46.40, 39. W 4 P. M 29,56. 40. 39, -0.265 8 .. .. 29.60.35.39 12 .. .. 29.62. 34. 39 ... Cloudy, very light wind or nearly calm Finday May 16 Fine. Bar. air. Water. &p.gr. Winds 4 A.M. 29.62, 33°. 39°, WSW 8 .. .. 29.70 . 33 . 39 .

June. Bar. air. Water, sp.gr. Whis. 12. M 29.80. 38°, 38°. WSW. 4 P.M 29.75 42, 39, -0.265 8. 29.78 38, 38, 38, 12. 29.79 36, 39. Word in A. M. moderate. Cloudy with Snowsqualls in P. Il. Sight dannakh Island 15 miles west in the afternoon. There is a good deal more low land about this island Than is apparent on the charls. In lat. 54.23 W and Low. 162.08, W sound in 75 fms hard bottom. Peak of Sannakh and send of Cand WSW by compass

Saturday may 17 Fine, Bar. au. Water. Sp. gr. Wind, WSW 4 A.M. 29,76 35° 37° 8 A. M. 29, 85 39 38 12. . 29.80 42 40 4 P. M. 29.75 46 39 -0.26 SSW 8., 29.78 42 39 Calm 12 ... 29.80 39 Take a series of observations to determine the position of a codbant, on which we catch a large number of cod

and halibert about 9 A. M. These

will be bound in the astronomical

nearly clear, very light aus or calin. Lee Shishalden & Isanotsky volcanoes.
Monday May 19, 73 June. Bar, aic. Water Spgr. Would 4 All 30.06 35° 36° NWhyh 8. 30.20 33 36 hW 12 .. " 30.20 41 39 "." 4P.M. 30.27 38 39 -0.255 MNW 8 .. . 30.30 33 12 ... 30.32 31 37 WNW Fresh breeze, cloudy with some fog Let through the Unimak Pass heat up against a 3knot current, Vass the nE end of akhun and look into the bay which mith supposes to contain a harbor, but see noth ug remarkable. Fuesday May 20\_ True. Bar. Au Water Spar. Wind. 4 A.M. 30.38 · 30° 37° 8 ... 30.38 30 36 nn E 12 .. .. 30.40 44 36 -0.255 " .... Come unto Captains Bay about 8 A.M. and auchor in Heinlink Harbor about 10.30 A.M. having made the voyage in 21 days and 12 hours, the quickest time brom In Frances co

to Unalashka, yeten record. Weather cloudy with fresh n & breeze Wednesday may 21.73 Cloudy, very strong, now wind with Enow Equalls. Examene instruments and measure a staff for the small Casella theodoble to use as a telemeter. Between the uppert love weres at a distance of two meles, with a correction of 0.2286m four inches are subtended and between each pair of wires two inches. The staff is seven Jeet long which will admit of measuring 84 meters with it Put out minimum and deepwater thermeneter and carry on our observations hence forward at the hours of 6 A. Il. 12 noon & 6 I ell each day. June Bar. Air, Surf. water Deep do. Wind 6. All - 33° 39° 40° n 12. M. 30.16 34 - n 6 P. M. 30.14 33 38 - hnW Thursday May 22 Cloudy with snowsqualls and strong MWbyW + Wwind, Occupied in examing instruments and cles-

ical work. Min Thev. 310 Wind Frine, Bal. air. Sur. water. Deep do. 6. A. M. 30.11 32° 38° 40° nw 12. Ul. 30.12 49 -6 P. M. 30.22 40 38 nlu - Friday May 23, 73 morning doudy with fresh wind and snow squalls, min, Ther. 32°5. Let meteerologieal record from Jan 1, 1873 to date kept by the Rev. Innocentures Shayesh nikoff, priest of Unalashka, with the thermometer which I left urth hun last year. 6 A.M. 30.32 34° 39° 40° MW 12 M 30.40 42 - - 0 6 P.M. 30.45 38 38 - S Saturday May 24\_\_\_ Would light, Weather thick cloud y & raing. Mun. Ther. 34° Work all day over clerical work and repairing signals. 6 A. M. 30.47 34° 39° 40° 12 M. 30,33 42 - 8 6 P.M. 3031 40 38 -- Levelay May 25 brosh. min. Therm. 34.

Go ashere at F. A. M. with Mr. Baker and attempt observations for time with vert circle no. 75: Come aboard at 10 A. M. at three P. M. good again and continue observations which are soon interrapted by clouds. Time Bar. an. Sur. water Deepdo IVind 6 A. M. 30.34 41° 39° 41° W 12 M. 30.38 67 - W 6 P. M. 30.40 54 38 - SSW

- Monday May 26 Cloudy nearly calin. Sailing master Herendeen goes to Ratelebba Bay in a bidarka with two natives to search for a stick to replace om jebboon. Ogo ashere andwork at adjustments of instruments and testing new Telemeter. P. M. go to Matchta Spel and take a series of observations for determining the maynetic asimenth of the baseline of the su of this harbor with observations for astronomical agrinwith at the same time, which are interrupted by clouds tund Back by & O'. M. Capt Herenteen

returns without having obtained a spar. Frue. Bar an Sur Water Deep do Wind 6 dell, 80.48 40° 40° 42° SW 2 dl. 30.47.54 -SW 6 P.M. 30.34 46 40 - WSW Fresday May 27 Monny cloudy with occasional bits of clear stey. Wend hu Joesh in puffs. Foto Wakehta Sport in A. il to obtain another series of observations for magretic against of base hime. Return at noon. P. M. Cloudy would strong with occasional Enow squalls. Busy in elecical work. June. Bar, air. Sur water dept wind 6. D. M. 30.24 40 40 42 NW 12. ll 30.20 55 - n 6 P. Il 30.15 42 40 - 2 Wednesday May 28 June Bar. an. Sur. water, deep do. Wind 6 A.M. 30.15 36° 40° 42 n 12 M. 30.10 37 - n 6 P.M. 30.09 36 40 -Write fresh with a good deal of sleet and snow. Min therm. 32°

Thursday May 29.1873 Fine. Bar. surf. water. deep do. Wrist. air 6 A. M. 29.95 39° 41 n 35 12 Ul 29.97 - nw 45 6 P. M. 30.00 - NN 43 Storming hard with rown & squalls P. M. rain ceases. To ashore and establish a station for astronomical purposes, consisting of three blocks of wood, buried in a mass of stones and coming to the surface so as to afford a steady support for The tripods of our instruments., with a flat stone in the middle for placing the mercurial horson on. The position of the station is nearly on the spot where our astronomical observations \$1871-2 westerken. albatross & hears S7748 A 0,00. B 180,0', Church oupola bears \$.36 E

A 41,21,40. B. 221. 22. 00" Keysbone & bears S77 W A 154.13.20 B. 334, 13.40 Evening being nearly clear we go out with the verbical encle

and attempt to get time from one of the stars in the constellation aquilae, but the lamp gives us so much trouble that we have not great confidence in the readings, Keturn to vessel at 2,30 A. M. Min ther. 33.5 - Friday, May 30, 1873 Fine, air, Silif. water deep do Wind. Bar. 6. A. M. 42° 89° 41° NW 29.96 12. Il 56 - n 29.95 6 P. Il. 57 42 - n 29.96 Monning clear theme, wind light t afterwards fresh. Min. Ther. 35.0 To out at 6 A. M. with sextant and artificial hongon to obtain a series of equal attitudes for time Ville complete the series which promises good results. Faturday May 31 June, Bar. an. Sui. water. Deepoo, Wines. 6 A. M. 30.00 42° 41° 41° 12 M 30.02 54 - - ME 6 P. M. 30.08 48 43 - nE Morning cloudy with light MW wind, later wind fresher. all P. M. Fake the book & solo

Hog Island and set up a new signal on the edge of the bluff on the & Wend. 136 feet above the beach; to be called Island Fignal Keturn to vessel at 7 P. M. with a dead calm and fog conne in. - Junday Lune 1, 1873 -Fine, Bar. au Jur. water deep do Wind. 6 A.M. 30.10 60° 42° 40 var! U-12. Ul, 30.15 62 - h& 6 P. M. 30.13 52 47 - nE Morning remarkably clear and frie, To ashere to the new as. bronomical Dand take a series of observations for astronom ical asimuth between the s and the aper of the church oupola, may of the observed 62°. Lute in Vill foggy wind mod. Monday Lune 2 Inne. Bar. Ceir. Sirf. water deep de Wund 6 A. M. 30.13 44° 45° 40 vail. U. 12 M. 30.15 60 - 2 6 P.M. 30.15 62 47 - n moning clear & fine would light, Min the 36. P. M. Mr. Baker takes azimuth observations. Take The boat, Mr. noyes, hiomato & 3 men

and start for the site of the old Igognak er Eider village, to end a signal in the bluff to be used in the sn of the Bay, arrive about IP. M. Spendthe P. M in erecting the signal which is on the high bluff behind the point & composed of three scautling stayed & anchord as in the case of the Islands. Return to the spit about 9 P. Ml. after having taken a series of angles thearingo to determine the position of the signal and a series of telemeter observations to determe its height which is about 522 feet, Camp Jorthe night. From Eider A

Near Cape CheerfulNE shore of about an bears N 35 &
wound. o' o'. B 180°, o'.

Priest Rock bears N 51½ &.

A. 16°, 10' B. 196°, og'.

S. Head Constantine Bay N 76 &

Morth Head A N 923, &

A 67° 43' B 237, 42

End of reef W of Wakhba Head h 108 2 E A 73°. 22' B 253: 21' needle Rock bears Forth 117 1/4 & A 82.24 B 262°.24 Keystone & bears n 1453 & A 110:44 B 290° 43 W Head of Captain's Harbor S 465E A 119:20 B 299.20 - Luesday Lune 3 Tune, Bar au, Sur Water, Deep de Wind 6.4. M. 30.17 45° 44° 41° 2 12 M. 30,21 49 - 7 6 P. M. 30.22 49 44 - nE To out in the it. Il. after breakfast and take some soundings to determine the character of the anchorage. Which is in from 22 to 30 four hard sand finus, close in to the spit and 30 fms without volton, further out but still well uside the reef. The shore is pretty well laid down in the old chark as is the reef which protects Vhe anchorage. Day from t clear a little fog on the east side of the Bay. Start back about non having a smart breeze after gettry about half way over

Thursday June 4 Frene. Bat. Air Surfwaler Deep de Wind 6 A. M. 30.09. 39° 44° 45° hW 12M. 29.47 - 133 - h 69.11. 24.91 = 48 46 - ESE Cloudy with a little rain usus light in A. M. stronger with a little rain in Pell. all hands brising billing water trepairing tide guage house Thursday Lune 3 Inne. Bar. air. Sur water deep de Wind 38 6 A.M. 29.85 43 45 40 12 M. 29.86 48 6 P. M. 29.89 44 46 -Kanny with moderate wind. Friday dune 6\_\_\_\_ 6.A.M. 30.04 42 44 40 12 m. 30,11 44 -4 P.M 30,14 46 44 -Karning all day, Wind light. Saturday June 7 6 A.M. 30.15 42 43 40 SE 12 M, 30.14 45 GPM. 30,14 44 43 ... Blowing hard and raining all day 6. A.M. 30.16 42 42 42 40 12 dt 30 16 46 -6 P.M 60.14 45. 43 ESE

Blooms	h . T		A Pari	1 2//				
rowing	me	The grant	2 cine 9, 1	873	oug.			
Fine l'à	Par.	air.	Sur Water	Deep do	Wind			
6 A. M. &				•				
12 M. 3								
			42					
1	•							
Wind fresh in squalls, some rain, Tuesday Dune 10								
Fine. li	Bar.	air.	Sur water.	Deep do.	Ward.			
6 A. M. 2	9.87	44	41	38	ζ			
12 M. 2	9.87	62		engan sekar rangan sarangan saker Antohanbahan sering saker	2			
6 P.Ul. 2	9.88	71	48	-	n 8			
Cloudy	in ea	uly i	A. M. but	soon c	lears			
would me	vdero	ete.	Take a s	eries of	angles			
			ronomi ca		A			
		/ 1	nnect the					
			e been obs					
			Il. conne					
			Station A					
			rvations	on th	u sun			
for agin				adalah da sa <sup>n</sup> akan dalah katalan melebuah katalah melebuah katalah salah salah melebuah berbaikan dalam salah sal	alar, planetari separata nella alata semanta dinen penere e dilandari titalari sen delala dila			
		The second second	ry Lune !		116			
<u>}</u>			Water d	*	Winds			
·		44	42°	38	Calm			
12 dl. 2		54			h lt.			
4 P. M. 2	1	56	42		Calm			
8 P. M. 2	•	52	43		323			
12 P. M. 2	9.69	46	41	**************************************	The same section of the sa			

Fow out of Hinkrik Hearbor early in the A. Il. and anchor off the town. Day very Joggy, clear at intervals with very light airs. about 6 P. Il a moderate breeze skrings up and we sait for Chichagoff Harber attu. Cloudy-Thursday Dune 12 Winds Tune Bar. au. Water 4 A.M 29,59 43 40 8 ... 29.50 41 12 ll 29,52 46 41 4 P. M 29, 48 43 41 8 ... 29,53 42 41 12 .... 29.65 41 40 Weather thick, wind moderate, some rain Friday June 13 Time, Bal. air. Water Wonds 4 A.M. 29.71 40. 39 8 .... 29,85 42 39 12 m 29.95 46 40 4 P.M 29.96 H5 39 8 ... 30.00 #1 40

Daturday June 14" 1843about 10 a.m. see Gouldyr Island bearing S. magnetic. at noon having obtained somet Jime Bar all Mater Sp. Fr Minds observations for position placing us in 4 am. 29.94 39° 39 - 6, N.C. Lat. 52° 56' 41.2" and Long. 1175° 38' 20"6. 8 " 29.95 40 40 11 Sound as follows: 12 m. 29,90 43 39 Line run ont Wime 4 P.M. 29.89 42 39 1. , 29.86 HU 39 M. Let go 12 h 40 m, oosec 50 fms 12 40 12 11 29.85 39 40 50 " 12 40 Meather thick & cloudy, wind light. 34 100 11 12 41 Evening a little fresher. Junday, June 15th 12 43 100 11 50 " 12 4x Minds. 21 Vine Sar. With Mater 4 a.m. 29.89 38 40 50 , 12 4b n. 1 29.91 41 39 M.M. M. 100, 12 44 100 12 50 12. M. 29.96 42 40 100 12 52 4 G.M. 29.97 42 40 200 " 12 56 118 "end of line 12 59 1 30.00 42 40 12 " 30.01 42 40 Irtal 1018 " without bottom; the despest Mind fresh. Weather cloudy Monday, Jane 16" sonnding ever taken in Bering Dea, Conditions all favorable; the sea quet; the Vine Bar. Air Water Minds Sound nearly plumb, and the sand cup 4 am 30,06 H1, 40 with which the 100 th lead was armed n.n.C. 12 m. 30,25 62 42 : come up clean and unerabehed, 44 n. Thorning that no bottom could have 4 P.M. 30, 26 48 I been reached Cloudy & clear by hours, Wind very light.

Inne Par air Water Sp. Frv. Mind dead ahead. A ground swell heaves in, so that it is difficult to make headway against it in calm or light 4 am 30,05 40° 40° 7. S. W. weather by towing even with the tide, and there is no hold for an anchor 12 m. 30.01 45 in the entrance. 4 JM 30. 07 43 41 25,5 8 , 3004 41 The latter breaks clear across during 41 M.n.n 12) , 30.00 42 40 The heavy winter storms. The best Doggy & cloudy; blowing a stiff bruge. holding ground inside is pretty Ham. 29.98 Hi Hi med lover on the western side, n.C. about two thirds of the way from the rocks to the vellage; 6 fms muddy gri 8 1, 30.00 42 41 The is good water but no drift were 12 m 30.05 H4 H1 or growing bushes of any size. Hogyy & cloudy. about mon stand in Chere is a dwelling and store towards Chichagoff Harbor, aller Fetands honse occupied by the agent of the coming to an anchor in the middle of - Fin Company and about thirty native hondes in which live about the Say about 1.30 G.M. 200 natives. At the present time there is but little The Harbor is a good one but can only be entered with a fair wind and fish to be obtained here, though the entrance is exceedingly narrow formerly abundant, The boollies or squalls from the so that there is no opportunity to tack ir wear. In an emergency, one mountains are very severe in winter may anchor ontside the narrows and the worst meather generally comes from the Southeast my eastward. in a small bight on the S. E. sido Northeast weather in summer is a southwest wand draws in, as usually more or less clear; also fin as the narrows, when it comes

much of the Southwest weather — Friday, June 20th 1873. —
Southwest and west are the prevalent Jimi Bar him Water Sup do Wind
summer winds. 6 am. 29,90 40 42 42 m.
The parbor never freiges over and 12 m. 29.90 52 The fall of snow is not large. 6 Mm. 29.90 50 46 m.n.C. Very good potatoes have been raised. Half clear in the morning. Obtain als My the Company's agent, but no other ervations for time and agenreth, and Seed - Shursday, June 19th 1873 - Salunday, June 21th - Sup do Wind San. Air Water Sup do Wind San. Air Water Sup do Wind San. 29.99 40° 42° 42° N. 6 a.m. 29.98 43° 44° 42° M.S.W. 12 M. 29.97 47

6 PM 29.90 44 43

, 6 PM. 39.02) 49 45

"L. Chady all day with fresh Hywind. M. H. Hyck and Joggy. Wind light. Divid is no anchorage in Goldgeb Korlor - Synday, Johne 22" -1 so called on the Ex. Exp. Where are many 6 am. 30.20 44 H3° 42° n. E. Lr. Mere last summer. 6 8.m. 30.20 57 46 "
The same is asserted by the natures Day cloudy, wind light.

To be true of the other Boys which " monday, find 23". indent the shore line of the island, Time Gar, Airl Water Seep de Wind 6 Am. 30.29 45 44° 42° Calm except Massacre Day, where there is 12, m. 30.25 55
12, m. 30.20 50 44
20.20 50 44
20.20 50, 20 an anchorage, though in pretty deep There are no harbors on agatter or Weath cloudy with glimpses of sunshine I wichi Blands of on Stoldyr! in I.M. Wind variable, light

Weather thick, wind fresh. Setting ready for sea. Wednesday, June 25th, 1873. Take the large boat and visit Saransa; Bay to the Gastward of Chichagof Howlood. Dime Bar. Alir Mater Supdo Mins
6 a.m. 30.07 46° 44 42° Kalm
12 M. 30.11 36 M. n. h. L. Chis Bay is open to the north and Gast and affords no anchorage. There are scattered rocks and rests, nost of Them visible above the surface at live svater There is a consideral depth Garly in the day, sky covered with broken of water in the outer part of the Gay: clouds. attempt azimuth abservations. but near its head it andden should which are interrupted by clouds, and the weather becomes thick, Wins very light and terminates in a broad almit beach Dynsday, June 26th a mile long through which a stream Jime: Bar. Alt Mater Deep do. Mindy 6 am. 30,21 46° 44" 42° M. R. C. En flows on which is a nature fishing Et at con. Nessels had better avoid this 12 M. 30.26 56 M.E.,
6 P.M. 30.26 66 Hb

Wind light, northerly, Weather thick & foggy.
Ous for magnetic dip by ordinary and
Lloyds Methods am, and P.M. Bay. Keturn to the Harbor about 3 P.M. The tide about atter as in the Eastern part of the chain, invariably rises to the Westward, and falls to the South and east, causing a strong current Late in P.M. sun comes out well and near the shores; of which rebuils bound for the Harbor with light minds we get four sets of azimuth obs. The hest yet oftained. I Griday, June 27th will: do well to take notice! Obtain a few observations for agimuth after returning. Inesday, June 24" 1843. 6 am. 30.22 48 Ime Sar. and Ant water weep do Wind 12 Mi. 30.2x nnnfr 6 am, 30,04 42° 4 8.M. 30, 23 now 12 m, 30.05 50 30,22 45 6 P.M., 30. 03 46 30.23 HH

The weather is two thick to permit of making Ame enough to resemble a coarse state out a description of them. One tripod of the principally occurs in the vicinity signal on the no Head named Kyska signal - One on the sand bluff near the animals on the islands, but a good many lake in the middle valley to End signal sea-ford and a few small land birds another 1362,553 m. distant . D. 26 6 Shell fish and other fish are very searce forming the other end of the base line except brook tront in the streams. D'End signal. The latter 37.163 mts There is abundance of good water, above the water; the former 12.97 meters but no timber except dreft wood, and at it. a fonthe bliff signal, on The rolling hills are covered with a The edge of the high bluff on the So It ch growth of grass herbage and moss side of the harbor of and a fifth, bare with a few heavy bushes, and cranherry signal, in the top of the sand stone blings there isterspersed in if. The estable the north side of the harbor, which Cicrampelica and Friballaria are at the waters edge is hollowed out into chundant. There are a house and some Junerans shallow cares.

- Unesday, July 1"1813. hato in the beach occupied at times by hunting parties of alents from the Onne Ban. Air Anf. Water Deep do. 6 am. 30.02 43° 41° 41 Mino other islands. The only for is the sea 68 1,6 atte the who occasional sealions are 12 M. 29.92 50 6 J.M. 29. 84 49 H1 Marible June Bar. air Thater Dup do Mind Luce for all day; can see nothing a feet 6 am. 30.39 HA 42° HI° S.S.W row off I Wind light and variable. 12 11. 30.30 55 n. £. - Widnesday, July 21, -6 J.M. 30.20 HT 42 " June Par air And Water Dup do Wine for all day, broken by the sun is am. 29.76, 45° 42° 6, 12 m. 29.46 54 when the day setting up signals, but 6 8.m. 29.73

Jane Bar. Arr Any, Water Sup do Mind 6 AM. 29.95 45° 42° 41° S.S.E. 12 M. 29.99 49 6 P.M. 30.00 50 42 S.W. Dense fog all day. Wind fresh in P.M. Greck thro more signals in the afternoon one on the N.W. end of Little Kyska, Bland Lignal and one on the S. B. end of the Sonthern shore of Great Kyska, which me call Sonth Head signal. Rain and heavy wet fry in a.M. 3.M. frygy and thick but less rain. Send the boat out to obtain some fish Establish a station on the sand bluff near the village for taking astronomical and magnitice observations. I the Moskible; but they do not succeed in finding of the San day poly 3 193.—

Jame Dan. and Sung Water Deep do Wind Sunday, July 6th 1873.—

6 am, 29.59 46° 44° 42° S.S.W. Jime Ban. air Luf. Water Dup do Wind 12 M 29.92 52

6 G.M. 30.00 48 41 J.W. 12 M. 30.09 44° 43° 42° S.W. 12 m. 30.09 53 6 Gm. 30.06 49 42 Dense fog all day, lifting a little now and then! P.M. measured base line Lay foggy & wet, wind strong. from So and A to no and I and run In P. M. cross the divide between the head of the The shore line between the two with harbor and and a small bay on the other side the telemeter.
Triday, July H. of the Island. The ridge is not over 300 ft high. The distance across is about two miles Dime Bar. Wir And Water Deep do Wind ta half. The western bay is shoal and full 1.m. 30,15 44° 43° 42° S, SW, of rocks and rocky isleto; the beach of sand tahalf. The western bay is shoal and full 

Continued. 41 Day clondy, with some fog + light wind.

Ann shore line + take angles on Little Kyskata.

Wednesday, July 16th. Day commences with light variable winds, partly clear, but soon clouds over. Observations for time, interrupted by donds. Spend day baking angles from various stations. - Sunday, July 20th, 1843, Dine Bar. Air Water Deep do Wind 6 Am. 30.26 44° 41° 42° S.G. 12 M. 30.20 X8 S.S.G. 6 P.M. 30.13 48 42 Inne Bar. Ait Water Sup do Wind 6 a.m., 30.48 49° 42° 42° 6 P.M. 30. 13 48 H2 S. 12 M. 30. 44 54 S.M.

Day rang with thick fog and light wind. 6 P.M. 30. 38 51 H2 W.

P.M. Wind ptrong. Storms had all day Evening see some stars.

Thursday, prly 17th. He second time since fine 10th.

Jame Gar. air Warer Sup do Wind Monday, July 21.

6 a.m., 29. 96 50 42° 42° 8.M. Jimi Bar. air Water Sup do Mind

12 M. 29. 91 50 H2 W. S.W. 6 a.m., 30. 56 57° 43° 42° Variable

6 V.M. 29. 47 50 H2 W. S.W. 12 M. 30. 59 64

A.M. Stormy wish dense fog. P.M. same. 6 S.M. 30. 56 64 45 Variable

Priday. Ander 18th 1842 Inie Far air Water Dup do Wind a little fry on the horizon. 29.61 49° 42° 8.3°. Didal abservations, soundings, astronomical 29.72 57 Variable azimuth and circum meridian altitudes with 29.84 53 42 " The vertical circle, take up the day. 12 m, 6 G.M. a. m. Heavy wind squalls Hog. I. M. Party toggy, In P. M. Capt. Herendeen goes he a heak To ashore and run some shore line and take in the middle of the north part of the island some observations for magnetic azimuth; interrupted by fig where he obtains some bearings on distant - Saturday July 19th, objects, islands te as follows: 42° Le Variable Reef (end) stretching howards Pillar Rock A. 54 W. 6 a,m, 30.03 S. Gillar n. 60° m. 3 (or 62 m.) 12 m. 30.20 Lr. Variable Bonldyr Ad. (middle) 3.78 M. 6 P.M. 30:30

42 Continued. N. edge Fron Id. S., "Little Sitkin Id. S. 886. n. Rat Id. S. 786. N. E. corner Little Kyska La 4 P.M. 30.30 53 46 S. edge Rat Id. 8 , 30, 29 48 43 in one line S. 756. S. 696. Day very foggy with light winds.

60. S. 556. Stand out of the harbor intending to pass Small island off Little Kyska) S. edge amehilka Ad. Glahd D South Head A S. 416. between Little Kyska & Fron Id. but a head South End A

astronomical A

S. 4 \$1.3006.

S. 7 \$1.2006. tide sets us back, so that me were abliged to pass to the north of the latter. When I noon the peak of Chrostoff Id (supposed) a bell of low land with lakes, cuts across ; the island about a mile north of this peak, fore 6. by S. and that of Iron In S.E. by S. and between N and the high north Peak. 28. (distant about 3 miles) by compass, Surday July 22 1843. — The north edge of the latter at the same Sime Sar. dir Water Dup do Wind time bearing 6. S. E. at noon get an 6 am. 30.50 52° 44° 43° Variable observation for position, which shows 12 m, 30.45 65 8.3%, Mark these islands are placed considerably 6 8.3%. 30.38 66 43 Variable boofar to the North on the chart. at this time Morning somewhat foggy, nearly calm. The north peak of Great Kyska Id. bore I.m. While tresh at intervals, forgay. Why S. magnetic. a.m. take observations for magnetic aginuth The dask slope of Fron Id. is long teven and dep. I. M. Didal observations and sounding the ravines te seemingly even filled with sand of a gray color. The north slope is about trocky. The West slopes down Spend. The night making about in amchither bassay

Thursday July 24" 1843. — Triday, July 25 h 1843. —

Olimi Bar, Air Water Sup do Wind Olime Bar, Air Water Sup do Wind

4 am. 30.20 45 42 — S.S.E. 6 am, 30.00 46 42 42° S.W.

12 M. 30.05 52 43 — " 6 PM. 30.05 49 42 M.

6 P.M. 29 99 44 112 — 16 V. 1 - 16 V. 1 - 16 V. Lay foggy telondy, wind light. 6 P.M. 29.99 49 42 - S.E. Day densely foggy, wind fresh. The boat goes out to sound on the kelp petal finding the least water at low tide to The fog lifts at times about noon and the first Ams. She brings back a good supply me make the coast of amchitha and of fish the first cool thalibut of good after standing in along share we enter was ty obtained, since leaving Unalashka Constantine Boorbor and onehor in 8 That sandy bottom about I P.M. \_\_\_\_ saturday July 26th \_\_\_\_\_ Shortly after this the fog short in very 6 a, m, 30.18 45th 42 42 8.2. Mick with rain. This is a very good 12 M. 30.24 52
Surbor except in n + n.b. winds, and 6 9.M. 30.29 48 42 during the prevalent Westerly & Southerly Day foggy & cloudy, wind light. used. The opening is wide enough for out. Sunday, July 24th,
any vessel to best in and there is about 6 a.m., 30, 32 48 43 43° -dance of water a kelp patch with 5 fm 12 M. 30, 39 62 W. water on it is in the middle of the outer 6 P.M. 30, 45 62 44 part of the entrance. The shores are . Foggy tealm. at noon the sun comes principally low bluffs with bold nator out now then. Try for circummeridian but the head of the bay has a sandy beach and close in is shoal. altilide, with sextaht and get a fin tolerable on a, then attempt observations for Two sites of old villages exist here; there is plenty to in with poor success. drift wood on the beach tabundance of fresh water We can ght abundance of cod thalibut near the entrance of the bay

Continued. - 47 Monday, July 28" 1873. \_\_\_ no better than that afforded by a number Bart Air Mater Deep do . 30.50 50° 43° 43° Wind of other bight between this and Constantine Vine S. Harbor. I The anchorage is exceedingly 6 am contracted, and only sufficient for the 30,51 54 12 m. 30.43 52 XX . S.S.W. smallest reasels. The water is very shoal. 6 9m. Morning Joggy trainy, wind fresh, Evening rainy not appearing to exceed two fathoms. 6 am. 30.41 49° 43° 43° S marked on the chart as the anchorage.

12 m. 30.40 58

S. W. We found a ridge of rocks with about

6 P.M. 30.39 56 42

S.W. Mere feet of water on it. The tide was Toggy with rain at times, wind squally Evening very low at the time of our visit. I take the large book trun out of the harbor, It is incomprehensible, how, with as beating up the n. coast of the island to examine good a Harbor as that of Constantine, Kirloff Harbor. So not find anything so near, any ressel should attempt corresponding to the buy on the chart to enter this rocky cove, which is and go askore at a low point, which is under no circumstances to be recom-The most primment one above Constantin Bay mended, It is about 32 miles from East bake the following bearings (magnetic): The W. head of Constantine Harbor, Bast bape of anchetka 6.5 S. The remains of the deserted relique W. Head bonstantine Bay S. 65 6, are very evident. Small Id in bight Wood do S. 48 6 Return to the resul, the rest of the after taking tea return along shore and Jime Bar. Ait Water Sup do Wine see the Cross trillage of Khriloff & go in 6 am, 30.32 30.26 to examine the locality. There is hardly 12 M. my bry, the Shelter is very poor, 30.2x 5x

48 Continued - Sunday, Aug! 3" 1873. Hoggy trainy. The sun from through the fog occasionally, and in the P. M. Dime Bar Alir Mater Seep do Mins 6 am, 30.08 49 42° 43° S. 12 m. 30.10 52 S.B. attempt observations for time with the vertical circle, and get one attitude. 6 P.M. 30.11 51 H2 Wind fresh. Evening rainy, Wind more moderate. Parny & stormy.

Monday, Aug. 4"

6 am. 30.26 50 42" 42" below a shock of earthquake Hollowed by another lighter one was felt this evening at 10 5/2 The interval was about three seconds. 12 M. 30,24 53 S.B.
6 P.M. 30,24 52 42 B. Floggy, Gains Abloms all day.
Tuesday, Angt. 5th 6 am. 3024 50° /42 42° 6. 6 Jm. 30.10 52 43 12 m, 30.25 56 Clainy mish strong wind & dense fog.

Griday lang, 1st - It.

6 a.m. 29.95 50 48° 44° S. 6 P.M. 30.26 54 42 Joggy rainy and stormy. G.M. Weather 12, m. - 29, 92 52 "
6 Pm, 29. 84 50 H3 " settles a little, but wind remains the same. - Medneaday, ang, 6th 6 a.m. 30.34 st2° 43° 6.
12 m. 30.32 59 Karny & stormy all day, bross the Islam and find a tight full of rocks on the opposite side, 12 m. 6 a.m., 29.79 50° 43° 44° S. 30.33 55 44 4 P.M. 30,32 50 43 12 " 30,30 48 45 12 m, 29.84 49 Morning half clear with fresh wind and streaks 6 9m 29.90 50 42 Wind fresh fog very thick. of fog constantly passing over. Observations for latitude, time + asymuth. These completes, stand out of the harbor about I P.M. when it shorts down thick, with very light winds . -

54 Continued. Continued. and stand out into the straits. Get als " The 54 04 50 Ams 39 sec. cross bearings on the no beak of adakh, 54 48 41 " making it approximately 5648 ft high 50 - 11 -55 35-41 " which must be nearly correct. 56 22 47 " 50 " - Thursday, aug 1. 14" 1843. 51 " 57 13 50 " 56 " Jime Bar. Ait Water Wind si og 50 " 4 am 30.19 50 48 21686 59 04 58 " 50 " 8 " 30.22 50 50 1 9h. 50 " 0 04 12 m. 30.23 54 51 "
14 P.M. 30.20 50 50 50 , 02 04 50 " 61 " 30, 19 49 50 LA Variable 3 08 64, 50 " 30, 18 49 50 " 04 53 12 50 " 105 " Day foggy or clondy, Wind moderate or light. Bottom about, 700 fms. Lead came up clean. aug. 15 h Friday 48° 50° It Variable Kasatochi Id. Vore S. by W. Koninghi Id. hos 30.20 48 50 balm 6. by S. \(\frac{1}{2}\) S. magnetic. Later calm.

30.20 49 50 \(\frac{1}{2}\) Saturday, Angl. 16" 1873.

30. 19 41 50 \(\frac{1}{2}\) N. n. b. \(\frac{1}{2}\) Sime \(\frac{1}{2}\) Bar. \(\frac{1}{2}\) Ait \(\frac{1}{2}\) Ward.

30. 20 49 50 \(\frac{1}{2}\) H \(\frac{1}{2}\) M. \(\frac{1}{2}\) \(\fra 12 m. 4 9.m. 12 " Day cloudy, warly galow. 12 m, 30.18 49 45 abont 9 a.m. being in Lat. 52° 19 n. & Long. 175° 23° 4 P.m., 30. 13 50 48 30.13 48 Dine Run ont Sime occupied in 12 , 30.12 49 48 Lt. S.
Th. 52' 0" Let go running out 50 fms. Dead calm with Jog all day, until late, 25 sec. in evening, with a heavy swell from the 52 25 50 fms "M. E. Some ford sails to obviate the statting

- Continued. - 57 Dunday, Aug 1, 17" 1873.

25 mie Barl. Air Water Wind

4 am, 30.10 48 50 St. S. not so good. The shores are mostly rocky and the shetter is formed by many small islets. The ground was covered 30.10 46 48 with a rank growth of grass therhage. 8 " 12. m. 30.10 48 48 "
6 P.M. 30.09 50 46 " no vegetables are cultivated here, though appear ances would indicate that they would Hind light and unfavorable, Spend the do well, if properly attended to. thre day beating into alka Hartor. Booth of the harbor is a broad sand beach Hayan Bay. I There is a settlement In the village there are six houses of and trading post of the washer born . bo samed lumber and a number of huts. I this place, and the agent came out to " The tides rise and fall from four ho your as me skin capper. There is also a Dix feet, There is no establishment. small petiliment in the strait between todfish and herring and a large kind amlia and atka on the amlia shore, and A Salmon and several sorts of shellfish another at the old Kussian Station on and and on the west side of the island. Kironsky Juy 1 to West side of the island Theny whales were seen in the bay. There are in all about 334 natures in these Coal is paid to exist on the South side villagen. Those which we saw were less p of the island and on Korovinsky Bay, . Intertably clashed and less near in their there there are also hot springs near I here then those at any of the other status the Kluckeffskaia Valcano, where a have visited. The harbor is small "sort for invalids was established by with shelter from all winds, only a little He Russians.

heaving in during North askers. Intphor, alum and several kinds From the high land to the S. + W. I clay or bale are obtained in heavy squalls come down, with Southwest to vicinity of the valcances.

Jairs. The anchorage win sleven Ams anchor about 6 P. M. sticky med, good holding ground.
Frukher in it is however said to be

-Monday, ang 18" 18" : - Saturday, ang 1. 23" 1843. Jime Bar. air Water Lup do Wind Dime Bar. air Water Sup do Mind 6 am. 30.01 51 49° 45° 11, 6 am. 30.09 56° 46° 43° S.C. 12 M. 30.01 60 " 12 M. 30.09 62 S.S.E. 6 Pm. 30.04 58 46 S. Lainy and foggy. Wind fresh it squells. Hoggy trainy Wind light in a.M.

5 unday, angl. 19th.

6 am. 30.07 52 46 45 . E. — Sunday, angl. 24th.

12 M. 29.97 36 6. 6 am. 30.10 52 45° 43° 45° 8.

6 PM. 29.94 52 145- 12 m. 30.23, 64 m. Mednesday, aught 21th - Morning cloudy afternands fartly clear, Wind 6 am: 29.90 kg° 149° 44° yr. 6, mederate. diveling foggy. Observations for 12 M. 29.94 56 . a month interrepted by clouds, astronomical S.E. Makin about 20 At M. C. of the Church on a 6 P.M. 30.00 51 47 Rainy & stormy all day. Work over pketches and slight elevation. Glag signal observed clarical work.

— Thursday, ang. 21 or — passage at the South head of the harbot. 6 am. 30,22 50 46° 44 \$6, The signal was placed on the middle of 12 M. 30.26 56 " He top of this islet, which is very small 30.26 52 45 " and high shaped like a jocky cap, or old I oggyt rainy with occasional squalls, I fashioned fountain inkatand, and easily Ind glimpoes of clear skyttoward evening her ognised. T.M. Mearly clear. The for aging the day, aught 25th 1 a.m. 30.22 50° 1 46° 44° 8.6, & am. 30.48° 526° 44° 44° balm 

Continued. \_\_\_\_ 61 60 Continued Jake a bid arka and cross the portage to one, and the inner face of the Western examine the old anchorage at Kotogensky one. Getween the tro Mere is a sand bar Bay. On our way over visit the hot skrings with three fathors on it at high water on the slope of Klincheffskaia Valcano. and about two at ordinary low water. These springs contain sulphur, limet The inner boy has become bery shoal alum. They have a temperature of 16x 21 so that it is how inexpedient for vessels and the water deposits a variety of red, ble to enter, where as formerly the bompany's and white clays about the drifties of the brigs were able to make a good harbor geysers. The body of water issuing is not to the n. + W. of the interpree. There are Jalge and seems to be diministying. abundance of shellfish here, cod in their Chel Ausuans formerly had a bath Honse season, and halibert, but little driftwood Fretreat for invalids here, but the great The inhabitants number about 100 souls instance from the phore (about 5 miles) there are pereral good houses and achurch and the very fatiguing climb up to reach rapidly falling into decay. The plateau on shich the springs are petuated: This settlement from the abundancy were them difficult of access for persons of food, is much better suited to the in a weak condition. They are peached reglivements of the aleuts, than that on from the head of a long bay making up Magin Bay, but the harbor is no longer I from the old harbor, inhere a largelyting avdilable, though Klinkofstrom Barbor Mr. am enters in which is a great ahund in the other side of Korovinsky Bay is since of Ralmon. This bay so very shoal, said to be well protected. its bottom and shores story and the dipths — Inestay, augh. 26 th 1873.—
of water parely exceeding one fathom. Jime Bar! Air Water dispose Mino
leaching the settlement towards evening to am 30.50 32 47 44 S.M.
I towned that the spits which enclosed 12 M, 30.44 62 W.S.M.
It hay formerly entered by ressels 6 P.M. 30.44 60 48 W.

The fay formerly entered by ressels 6 P.M. 3c. 41 60 48 W.

The and on the outer taxe of the lasts Doggy in J.M. Observations for latetude in

Continued \_\_\_\_ 63 62 Continued. Day half cloudy with light wind in a.M. bleaver with fresh Westerly winds in P.M. - successful on account of clouds. Cross Kororinsky Bay in the skin canse to about noon migh anchor and stand Klinskofsfrom Harbor, a small bay making in from the extremity of the larger one. out of nazan Bly to the Bashward, finding Bere complete protection is had from a very helavy, n.W. ground smell off short, all winds in 11 Ams hard pand. Thursday, ang. 28 1873, This anchorage was first used by last Dar. Oliv Water Sup do Wind martin Klinkofstrom, then of the Anssian H am 29.85 50 W.S.W. american Company's Marine Service, and 8 11 29.8mg 49 // since by others! The above name was 12 m 3n.0x 52 applied to it by the Russians. 4 0.m 30.10 54 leval was reported in the bluff froming S.S.M. 30.18 58 the M, E. head of this harbor, but on 30.20 58 examination only drift ragments Day parky clear with fresh winds & heavy of lignite and schaified wood, of no groundsmell. Fog squalls passing over I The for economical purposes were from the n.W. in rapid succession. I and it is quite certain that Make the most northern of the group of In well detried bed even of this Islands, known as the "Four braters". in aterial, the sto in this locality. It is a very sharp and iregular island allte examining this locality return former five miles long, from n. to S. my Magan Bry Hoek ready for sea.

Mednesday aug 27th 843.

Bar Wir Mater Dep do Mind about that as inde, wishout lays or anchorages. It is separated from Wind the island next & b. of it by a S.W. strait not over three shiles wide & 5 am 30.11 54 S. S. W. high above water, n. 3r. from the latter. 12 M. 30.01 H. P.M. 19.96 46 W. There is a rocky pullar off the M.W.

Continued 65 64 Continued. than any of the others, and the north coast end of the first island, but no may have been trelve miles in length antlying reads were observed. terminating to the Westward in a long The sedond island is mountainens low, newoh point. Setween this add. but not so regged no the first. Mextends in made a n. +S. the N. E. and is another low point. behind which is probably situated the dire etron and may be sight miles ancherage spoken of by the natives. long t five will, or less. The peaks a hear of swell and strong n. W. wind well foggy tat apparently from this to these thous and feet high tralcance Alexing straight in however, Acothade around the north point of this island one entering the examine. This to eatity. The dast shore is weeky with a priminent the shores of Mess is lands appeared to be point making out South of which is frined of valcance buccera't metamer behind its and a shingle beach on ash tout. The north teast shores in A air over after to There was a gird of the group, but finding no safe anchorage or landing place, we giver preluctantly deal of driftwood on this beach. obliged to give up the idea of attaining The Southeast end of this island an arouth of this place, as the laterity is a moderately high troken weeky point with precipitions sides. of the peadon and character of the weather I larger island supposed to her Kamagil give us little to hope tet even if me ine just spoken of by a strait The islands present no resemblance turning in an of the direction, whatever to the representation of them whatever to the representation of them on Tetenkoffs and the Mo.S. Hydrographic leharts and the differences are irriconcilety five miles or more in midth, at the Western end of which appears hobe another island. The third mentioned The older charts of Sarychell and The Aussian Hoydrographie office are to the South of the strait is larger

66 Continued. \_\_ 69 perhaps a very little better, but still Later in the day the most edge of Unlex cudingly incorrect and it would appear - alashka heaving n. o. by t. 2 to magnetic to be the only method of obtaining an and the north shore of makuskin Bay approprimate chart, to take an opportunity & sounded with 200 Ams; finding no of landing a party on them in the fact bottom and being directly on the line are ather lot the spring, and leave then of the supposed freel, replaced the lead the a during the summer unless whater with a heavier one and sounded again should be discovered somewhere which in nearly the paris locality, with two month afford good protection, and fine line, canin attaining no battain. This does not from our observations The fallowing hearings & Attituted ever appear sery likely.
Friday, Aug. 29th 1843. Naket at the same time. A, Ship Rock N. by Wig W. alts Bogoslov Ourse Bar. air Water Wind B. W. edge. Bogoslor N. by W. 1° 43' (" 6, 6. " n. hym. 1 4x 0 4 Am. 30.21 41 44 M. 8 11 3029 48 46 11 A-6 mensures 4 58 10" 1 45 0 B.b " 3° 21' 55" / 43 0 12 M, 30.30 48 48 et 1, M, 30.39 52 49 Reef & of island bears n. Inder Car. 3'18" Ship Rock in with edge of Bogaslor, bears n. n. W. W. Int. and on with d. ", n. W. by W. 2 W." 8 11 30.40 46 46 m, 12 11 30.42 45 45 Day half clear with light airs from the In the latter case the attitudes were as follows: northward, and the still continued heavy 1º 15 30 On aif - Index Car. Off are, Ground swell from the N. +18. In. hearly calm. 1 20 0 35 30 25 50 Come up with the Volcanic vilund of 1. 19 6 35 10 26 20 20 Bogoslov, or "It John the Shootigier". A little later Begislow bearing W.n.W. at morn being in Lat. 55° up' 52"M. (Who axis of the island to the Mercet, hit it mated) the island bone n. by. E. by compass sound again with 250 takking t no bottom, about hen miles distant. a good straight sound. First coast of sound again with 250 Anthons the testion, a good strught sound though court of

67 - Continued. - G. timed. - G Unalashka hearing N. E. by E. : E. and principal groups, of which the middle is attitudes 1° 16' 0" by 1° 16' 20'. The most elevated, and the northern the Grown these data me gather the position of most sente. There appeared to be little the island to be approximately 53° 58 n. or no beach or landing place except Lat. 3d 164 33 30" W. Long. At and hopens the balus of broke rock near the S.E. an altitude of between 1859 + T29 feet. 2nd, and most of the share was precipitons. The reet may be considered as explicated. "Ship Rock" is a perpendicular square topped pellar about half the length of a man stationed at the masthead with. the island, north + West of the Month dear meather and a very heavy swell running, could distinguish no breakers end of the island. There is a small except those in dialety around theisland hock half omle Mit 6. of the island, The ressel being pun as marly as possible which rises but a few feet above the along the live of the pupposed reef for mater and a all sides (except the West) some ter or trielve miles. and strendery to the 6. 8 6. of the island This remarkable island presentes the freaking for there were observed, appearance of a perfectly bare and extending tess than three quarters of a mile extreme gragged & precipitons rock from the shore. The rocks of Bogosloo of his kinds to and without appear to have a general cleavage plane an indication of stratification. of 60° is a M.S.M. direction. The axes extends in a Min, M. (magn!) : There is no crater, not appearance of a cone, direction and is essentially a sharp hidle there is no water on it, and it is inhabited about half as high as long, bristlings by a most number of birds & a few sealions, with pinnacles and ragged projections whe heavy smell breaking many feet and seved with narrow gull is nown high on the precipitons shores, fortis by the weather. It appeared that it Me idea of a landing, and the weather) front not be possible to reach the summit gare in no hope of getting satisfactory or even to ascend it for any distance. blue rations on or about the island The prinacles are disposed in three some retuctantly headed the ressel for Unalask

70 - Continued: - Continued. - // breakers were visible. The rock may The island is evidently smaller there ! Man the plan given of it by Sary cheft and have sunk, or heen broken away since his poundings appear quit unreliable. The time it was voiginally reprorted. The position differs on all the maps. Yesterday I.M. We lattained ashearing and althouse on the Usevidost Valcanto Down delenkoffs two charts of the same date nos XXXII na XXX gio elightly different which if we had not been anaterially positions and one indicate, the supposes. set out of our course dry the current The Russian admiralty Charts as usual Mishprobably lower but neverthely appear more accurated in regard to the is one of the thinghest in the whole position, than the later over of Telenkoff. Group of islands, and from its The island is more to the North + bast toppearance of should pay it was then any of the charts place it, according only second to Shishalding. to our rather limited observations, - Saturday, ang. 30"1843. which last were interfered will by Done Dar. air Mater Wind 4 AM, 30.50 44° 45° W.
8 " 30.52 46 49 "
12 M. 30.55 50 50 " The surge tenrent. Principle her that when in alka the foreman of the nature hunting parties, came in from the dast kno 4 Am 30,50 55 30.42 49 of amlia, where he had been hunting 8 11 Dea-leves, and on enguring in regard 30.32 12 11 ho the high rock said to exist to the Day half clear, mind very light. North lof this part of the island, but The same annoying heavy smell continuing a disputed by Krusenstern, he stated P.M. noten browning the Mr. th of Cape that there was a patch in the locality Unalasher, sound in 60 fine fine indicated with five to ten fathoms on black grand. The shallow plateau it where in very heavy nothing string Ser first bonches with it

72 - Continued. -Western border, the alentin chain - Monday, Sept 1, 1873 - in this vicinity and continues hence Jame Bar ale Water Sup do Wind Sashrard to the Municand, 6 am. 29.65 50 Hb 45 W.S.W. W.S. W In 9 m the horizon being unusually 12 M. 29.90 36 Wh. Ir Clear we see all the peaks of Unimake 6 P.M. 30.02 50 44 S. Wh.W. including Shishaldin, which last is Lay cloudy +squally. 106 milles away. Attaining the mean P. Th. Combs out a little sour. It als ge string of attitudes, and attempt also for time with Septent, which letting the distance man accurately are interribled by high wind reloads.

If the distance of astronomical — Duraday, Sept. 27% —

I without me ordain height for it & Am. 30.12 High H5" A.

Town the elevation given by Jelinkoff 6 Mm. 39.95 50 46

Speak the Selv. "Houtchinson bonno Day calmert cloudy. a little sun in early M. M. M. M. A. for the Mestern islands. a.m. but als for time with Next. arcle after dark a strong S. & breeze are frustrated by clauds. with agrealls springs up and we layoff — Wednesday, Sept. 3rd —
and on near the month of Uralashka 6 a.m. 29.30 52 46 45 Valm
Healer, raiting for daylight to heatin 12 m. 29.23 57 W.S.W. Danie Bar air Water Wind Morning cloudy with heavy rain. P.M. Squally.
H. M. 31.15 50 44° S.S.W. Evening strong blow from W. ward with rain and squales: Thursday, Dept. 4 6 am. 29.58 43 45° 44 Lay rainy, squally tetorny. 12 m. 29. 40 M. M. W. Beat into the small harbor about 5 am. 6 P.M. 29.84 and anchor in 10 fathous meddy bottom. Gains and shorms all day.

- Triday, Dept. 5", 1873. \_\_\_\_\_ Continued. Jime Bar. ai Water Sup do Wind Noon clouds over with light 6. wind.

6 am 29.95 45° 44° 44° n. S.M. Angles from Keystone A.

12 M 29.89 54

6. June Bar. air Water Dup do Mind
Cloudy, winds light. Later, fresh. 6 am. 29.45 4j 46° 44° dt Baffly
brech a new signal "Swinoi" on Hog Island 12 M. 29.45. 52

n. N. captain's Bay; but the wind becomes very 6 P.M. 29.48 48 47 M.S.W. fresh and we are obliged to leave in a hurry Slow steady rain all day. Hind moderate The riginal is on the edge of the bluff, near - Wednesday, Septh 10th - When North end of the island, and is one of 6 am. 29. 58 48° 46° 446° 44° MSW. The tripodal kind like difer A. 12 M. 29. 50 50 X,

— Saturday, Sept 6th 1873. — 6 P.M. 29. 58 49 47 S.N.

6 Am. 29. 30 49 46 44 S.B. blondy, wind moderate, angles all day

12 M. 29. 30 54 449 6. Thursday, Sept. 11th —

Wind light; rainy all day. Dam. 29. 58 46 46 44 M.S.M.

— Junday, Sept. 7th —

12 M. 29. 40 49 46 44 S.N. 6 PM. 29. 63 50 47 Spirite

6 Am. 29. 43 54 4 Morning clondy, wind very light to find drops

6 M. 29. 50 51 47 S. of rain, So to thought and summer when the day Morning partly clear, Jake obs. I rtime with Vertilia there, taking angles and running share line!

Monday Sept. 8th 1 Monday Sept. 8th - Friday, Sept. 12th 6 am. 29.82 50 49 12 M. 29, 69 53
6 P.M. 29, 61 52 47 Le. Variable 6 PM. 29. 95 52  $n, \gamma$ morning perfectly clear tealm. Obs. for hime with belondy with light wind in a. M. Ve heal Circle of azimuth with Theod no. 9%. Areat in P.M. Some forg in P.m.

Continued.

Angles from Gider 1. Ascend the Lyognak Time Bar, Air Mater Dupla Wind Nolleans (extinct) with Sailing master Schenden (e Mm. 29.90 #6 #6 #42° J.W. bow the fog interferes and Armstrates on 12 M. 99.98 55 hroposed observations for the altitude + 6 J.M. 30.10, 50 44 Calm. position of the crater. The cone is princip- Morning fresh I wind and broken clouds. -ally of red and black scorice and is quite Obserbations for azimuth. Later cloudy steep The crater is about two hund la feet with rain squalls. Evening clears off com deep with a small lake at the bottom. and we take also for asymuth on the pale star.

Saturday, Sept. 13" 1873 — Wednesday, Sept. 17" —

Time Bar, air Water Supdo Wind & Mm. 30.29 43" 45" 44" &

1. Am. 30,12 49" 44" 44 Lillarian 12 M. 30.23 53

1. M. 30.14 57 6, 6 PM. 50.22 50 44

6 PM. 30.10 49 48 S.E. Lel by; light Easterly winds. Angles Morning half clear; calm. Obs. for agrinuth between the signal used for agrinuth in am. & P.M. angles from stations on Hoy Ld. with Polaris, and the church Conpola, 6 Am. 29.86 53° 49° 44° S.W. J.M. Which fresher Go to Hog Id. in the 12 M. 29.88 56 " See Swinor of and finish up the angles from 6 J.M. 29.92 54 48 S.E. Swinor of and the phore line of the plans. Wind light. A met fig continues all day. Ohs. fly agnetic aginfuth. 5 P.M.,

Back byane 32 days from Santhancisco arrives

with our first and only mail this season. Jime Bar air Water Sup la Mind - Mednesday, Sept. 24 1873 - 356.

16 am. 30.22 +6 +4 +4 - Calm 6 am. 29.79 +49 +45 - 356.

12 m. 30.18 54 - 12 m. 29.82 53 - 21 Mind of Continued.

10 londy, mind moderate. Obs for magnetic Rainy & Londy. Mind moderate.

11 against continued.

12 m. 30.15 +49 +47 - Calm

12 m. 29.94 +45 +49 +44 - Calm

13 an. 29.94 +45 +49 +44 - Calm

14 am. 30.10 45 +6 45 - 7. 12 m. 30.01 54 - 44 - 21 Mind and clordy, wind very light. Sail for the intervented by wind and clords. I interrupted by wind and clouds. it ty mind very light. Sail for the 12 M. 30.30 51 6 0.m. 30.26 54 48 " blondy, wind light &variable. 29.34

Cloudy with strong head wind that pea . Sight adverse winds all day! Cloudy askand to the Mother and the avoid it. with occasional rain. Openner notebook (Me) tombre Gar. Vair Water Wind Same Bar. Air Water Wind 4 M. 25.76 Hg Hg Hg & B. B. H M. 29.22 Hg Hs S. E. T. M. 29.22 Hg Hs S. E. T. M. 29.22 Hg Hs S. E. T. M. E. T. M. 29.22 Ho Hs M. E. T. M. 29.22 Ho Hs Hs B. B. H. W. 29.23 Ho Hg Hs B. M. E. T. M. 29.25 Ho Hs Hs B. M. E. T. M. 29.26 50 Hg B. H. B Dhurday, Oct. 2nd Cloudy with squalls, high sea running sand to the Southward. Weather better but Laying to all day. barometer very love.

12 \_\_continued. — Day with fresh wird, bad sea and more \_\_\_\_ Monday, Oct. 6" 1873. \_\_\_\_ Ort lef rain. Under reefs.

Sahrrday, Och. 4. 1873.

Jime Bar. Air Water Wind 12 M. 29.14 48

4 AM. 28.78 41 49° N.W. 6 P.M. 29.16 45 HT N.W. 4 am. 28.78 Hy 49° 8 " 28.69 48 ay half clear with strong breezes from W. 12 M. 28.68 48 49 " There afins for azimbuth, magnetic tasten 4 9.m. 28.69 48 49 W.N. W with Many of latitude with verheal orde 8 " 28.69 48 48 " at Sa, Apaint Station, Object observed upon 12 " 28. 12 44 40 .... fir agemeth is Mills" station of on Arvingin-Blowing hard all day with rain +squalls, latein of last year. The signals on Konge Making blow head way under double reeks. Island & Sand point have been removed by Sunday, Octor 5th some one, probably stolen for the lumber 4 AM, 28. 78 49 48 W.N.M. contained in them. But the pasition of 12 m. 28.92 49 48 " by means of a stake driven last your h & P.M. 25.95 45 49 " Interite the executive station, and Will Want very strong. Day cloudy with rain station being difficult of access had Agrallo. We raise the Shumagins early not been disturbed. Frie a heavy stake in the morning, and getting under the the covered when we are done chairing les of the land, we enabled to work I much center of station. up topoff Atraits, and about half parts \_\_\_\_ willday! Oct of the 1873. Milve anchor in 8 fathoms in ond 6 A.M. 29.13/ 38° 49° 48° M. Id location in Humbold Harbor. R. M. 29.21 53 4 P.M. 29.28 +9 41 W.N.N. after anchoring. I cod fish Her in clear with omoderate wind in early am tales Mr. an hulls. Obs. at Sandpoint a for astront & Man raginal with Whood no 97. I me + lathtode with sextant + artificial

Mednesday, Oct 8 1193.

Dime Bar. Vair Maker Sup do Mind Shome Bar. air Water Sup do Mind Shome Bar. air Water Sup do Mind 12 m. 29.70 49 49 49 56 12 m. 29.54 44 47 56 12 m. 29.54 50 50 12 m. 29.54 50 50 12 m. 29.54 50 12 m. 29.54 50 15 m. Shring agually Mesterly wind with rain at Morning all day with severe squallo, rain interdals all day. I'm strong. and very strong rainable mind.

Thursday, Oct 9 m. strong. and very strong rainable mind.

Thursday, Oct 9 m. 18 m. 6 a.m. 29.58 42 46 49 SM.

12 m. 29.54 40 17 M. 6 a.m. 29.58 42 46 49 SM.

12 m. 29.54 40 18 M. 12 m. 29.49 48 18 M. SM.

12 m. 29.54 40 18 M. 12 m. 29.49 48 18 M. SM.

14 Am 29.66 39 48 18 M. 6 a.m. 29.59 49 48 18 M. SM.

15 Morny with heavy snow squalle all day. Colondy. Mind moderate with grain. Horny with heavy snow squalls all day. Clondy, Wind moderate with rain.

Griday, Oct. 10th, Juesday, Oct. 14th,

Gam. 29.80 33 46 47 N.N.K. 6 am. 29.74 42 48 49 N.N.

12 M. 29.99 48 " 12 M. 29.73 48

6 9M. 29.92 43 48 N.N. 6 PM, 29.73 40 47 N.S.N.

Vary half clear. Wind rather presh. Cho. for action Snow, rain 4 strong mind. Let a letter I magnetic against with Their Mogy somewhat from I Sherped at Islands Charlor interfered with by strong joind asking to assistance for himself, upt.

- Baturday, Oct. 11" - "Wall of Molder and the crew of the Schrift Man. 29. 79 40° 46° 44° Min. I'm Iralan", wreaked in the gale of 12 M. 29. 90 58 S.W. Sanday on the Unga shore. Sent back 6 1.M. 29. 99 42 44 S. Lotter offering thend transportation Morning clear with very strong wind: to California. P.M. wind shifts to the Southward - Mednesday, lev. 18 . ith vain and squallo. 6 am. 29.85 38 12 m. 29 64 44 6 P.M. 29.23 42

Rainy with half a gale blowing from Sail for San Francisco at 7, a.m.,
The S. Y E. in P. M. Capt. Holder arrives — Sunday, Oct. 19th 1843. Tainy with half a gale blowing from Sail for Dan Transises at 1 th 1843.

The S. Y & in P. M. Capt. Holder arrives — Sunday, Oct. 19th 1843.

From the wrick in a bida ka and Jime Bar. Air Water Wand

Tremains all night.

Thinksday, Oct. 16 1873.— 8 " 30.40 44" 47" "

Olime Bar. Air Water Sup do Wins 12 M, 30.43 45" 46"

" Jame Bar. Oct. 16 1873. — 8 " 30.40 44" 47 8W.

Jame Bar. der Water Supda Mind 12 M. 30. x3 x5 x6

D. Am. 29.37 43 48 46 46 9 4 8m. 30. x6 x5 xy

B. M. 29.48 xx

Barry and stormy all days.

Rarry and stormy all days.

Claray with moderate winds in a.m.

Dim. 29.52 45 46 x12 M.S.T.

M. 29.68 60 T. 4 AM. 30 15 47 48

Soll.

Bay clear with moderate Mesterly wind. 12 M. 29.92 47 47

Ods. for magnetic and polar against "PM. 29.81 48 48 "M.

With Whendolike: Latetude: X time with T. 29.90 x9 x8 S.W. with Theodolike; latitude & time with 1. " 29.90 kg 48 S.W. perfical circle at Sand point A. 12 " 30.03 48 48 J.S.W.

J.M. Capt Holder, D. Shripster & four He of gale from J.C. with rain theory sea.

men arrive from mack of Sch" Wandrelin I Inelday Oct. 21" 1773.

for passage down.

Saturday, Oct. 18 " 30.26 48 48 vertical circle at Sand point 1, 12 " 6 am, 29,94 4.6= W.n.M. 12, Th. 30.38 57 12 m, 30.10 46 46 , 4 f.M. 30, 42 32 49 4 P.M. 30, 20 46 46 30. 52 52 50 " 30.29 Y6 46 1, 12/1, 30.55 50 12 " 30. 34 44 44 Af Clear with moderate Westerly wind, he arm S. W. Smell. 4x 44 30. 34

Mednesday, Jel. 1873. — Saturday, Oct. 25", 1873. — Jime Bar. Vair Water Wind Jame Bar. air Water Wind # am. 30.50 49° 49° S.E. # am. 30.48 54° 57° 5. 30.49 48 50 48 50 12 M. 30.44 51 49 " 12 M. 30.58 54 52 X PM. 30.39 57 50 " 4 P.M. 30.59 53 S.S.E. 30.38 52 50 " 8 " 30.60 52 52 S.E. 8.8.6. 12 " 30.83 51 50 S. 12 " 30.65 52 30 S. 12 " 30.65 52 30 S. 12 " 30.65 52 30 S. 1873 Sunday, Oct. 26" 4 MM. 30.29 52 50 S. 4 MM. 30.62 50° 30 S. 4 MM. 30.62 50° 30 S. 4 50 S. 12 M. 30.63 51 JZ ", 1843. 53 4 M. 30, 32 54 50 , 4 PM. 30. 59 51 52 Leans
1 , 30. 33 52 50 , 12 , 30. 60, 50 , 54 Calm 12 , 30.33 52 with fresh winds from S. ward. It was much the same, but wind # hon 30.33 52 50° S, Monday, Oct. 27", 1873.—
1 " 30.39 52 57" , 4 am. 30. 59 51° 53° balm 12 m 30,39 52 51 " 8 " 30.58 50 5x 4 P.M 30.40 53 52 " 12 M. 30.61 64 56 8 1 30.45, 54 52 " 4 PM. 30.56 52 54 M.B. 12 " 30.46 53 51 " 30.52 49 55 " (Marker mehanged, with enoy S.W. smell. 12 " 30.51 51 55 " 12 11 30.46 53 51 dead calm nearly all day. Late in P.M. a little Northerly air. These light Sontherly + Easterly winds are where intet at

90 \_\_\_\_ Continued. \_\_\_\_ Continued, \_\_\_\_ This time of the year. about noon in Lat. Run out simple so fine per 100 fm, Ratepi 100 fm. Diff.

Hy 24 01 M. + Long, 132 4 0" M. 50 10 33 19 m see m see see.

essay a sounding with a line composed of 1164 35 0 35 0 03 22 01

fine hamp traine and a weight of forty 50 36 48

howards. Owing to an imperfection in 1264 38 30 38 30 03 30 08 HO 17 H2 10 H2 10 03 40 10 50 The line, it parted when 36 fathoms had run out, Replace the heavier 136x 44 04 reight with a six pound lead & sound 50 45 55 45 55 03 45 05 1464 15 by 49 54 49 54 03 59 11/ Run ont Jame 50 fms, Jame per 100 fms Rate per 100 fing Diff. Let go 10 05 0 05 0 -64 Ams 05 33 05 38 m see 164 . 06 58 06 58 01 25-see. 1664 54 10 54 10 04 16 1mg 26x 08 45 08 45 01 47 No bottom reached. On hanling in, 330 36x 11 0x 11 04 02 19 32 (tathons being a little larger! Than the 464 13 35 13 35 02 31 12 rest came in safely, the rest parted 14- 55 near the end of the fine line. 16 13 16 13 02 38 04 564 This line was not originally intended to 19 0 19 0 02 47 09 he hanled in, but it seems endent that 664 The second size would serve in most cases to sound with and probably to 20 32 764 22 0 22 0 03 0 13 recover the lead. It was ordinary Twine such as is sold by stationers 864 for tying up parcels. -25 0 25 0 03 0 964 1064

onday, Nov. 3" 1843, \_\_\_\_ Mursday, nov. 6" 1843 air Water Wind Vine Bar. Vair Water (Sar V 30.32 48° 50° 8. N.C. 4 a.m. 30.19 59° 55 30.30 48 50 6. 8 , 30.22 56 12 M. 30.28 51 53 12 m. 30.20 58 55 M.M. H G.M. 30.21 54 53 " Beat into San Francisco Bay and 8 , 30,24 52 55 anchor of mission Rock at 199.M. n.w. 12 " 30.24 52 52 completing our seasons field work. Day fragy with a little sunshine and light southerly winds. Juesday, nor. 4. 4 a.m. 30.21 53° 53° n.6. 7 " 30.21 53 53 Variable 12 m. 30.19 52 55 H. 30. 15 60 5x S. 8 11 30.16 58 54 11. 30,17 54 Some sun, with tog and light winds - Wednesday, Moon 5th 4 a, m. 30.121. 55° 55° 8 30.14 54 53 12 m. 30.14 58 56 30.15 30.16

adakh n. Peak 54 adakh Straits 51 akutan Pass 81 albatross a 14, 20 amohitka Island 42, 44, 46 amehitka Passage 43 amlia Island 56, 70. atka Harbor 56 atka Island 56,70. attu Island 21, 24, 28 Baker, Mr. 12, 16. Bering Dea 23,71 Bog alor Island 66, 67, 69. Bauldy Island 23, 26, 41 California 85 Captains Bay 9, 74 Captains Harbor 18 Chagakh Bay 51, 52 Cheostal Cape 17, 71-Chieflagoff Harbor 21, 26, 28. hovostoff Island 43 Cliff A 135 Constantine Bay 17, 46. Constantine Harbor 44, 47. Cyane, Bark. 77

Delasoff Harbor 85 Ceider 1 28. 17, 74, 76. aider Village 17-From Crater Islands 63 Frost, Mr. Goselai Geak 50 Goltset Harbor 26 Great Ryska Island 34, 43. Hesendeen Mr. 12, 41, 52, 76 Hill 4 83 Hog Island 16,74,75,76,77-Holder, Capt. Geo. 85, 86. Humboldt Harboy 82. Hutchinson, Schr. 72 I gognak illage 17 Sgognak, Valeans 76 Ilailink Harbor 9, 21 Iron Island 42,43 Isanotsky Toleans 9 Island 1 16, 17, 42 Kasatochi Island 55 Katekhta Bay 12 Reystone & 14, 18, 75. Kiriloff Harbor 46 Kiriloff Village 46

Klinkofstrom Capt. martin 62 Klinkofstrom Harbor 61,62. Kluche Askaia Volcano 57, 60 Koninghi Island 55. Korovensky Bay 56, 57, 60, 61, 62. Kyska 4 365. Kyska Harbor 32 Kyska Island 30 Little Kyska Island 33,343640 42,43. Little Sitkin Island 42 makuskin Bay 67 Massacre Bay 26 Mission Rock 95 Magan Bay 56, 61, 62, 63. noedle Rock 18 N. and 1 35,36,38. N. Head & 17, 75. noges, Mr. 16 Jeap Island 8 Villar Rock 41 Popoff Island 82. Kange Island 4 83 Kat Island 42 Round Jop A 75. Landpoint 4 83

Dan Francisco 77, 87-Dan Francisco Bay 1, 9, 95. Sannakh Island 7, 8. Daranna Bay 28 Demichi Island 26, 30. Shayesanikoff, Rev. Innocentius 11 Shop Roch 867,69. Shirkesen, Mr. D. 85, 86. Spishaldin Volcano 9.71,72. Spumagin Ido 79, 82: X. Cend 1 35, 36, 38, 42. D. Head D 36, 42. Dwinoi 4 74,77-Janaga M. Peak of 50. Wakhta Head 118 Wakhta Spit 12, 13. Unalashka 1, 10, 11, 32, 45, 67, 68 Unalashka Harbor 72 Unga Island 85 Unimak Pass 9 Unimak Peaks 72. Vsevids Holcans 71 Hr Iseland, Sehr. 85,86.





